**Prashant Patil**

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# **Objective**

To work for an organization that provides opportunities for sustained growth, continuous learning, and expression of creativity and to become a successful professional in the field of Engineering, Design & Development for mechanical/electro-mechanical field.

# **Core competency**

* Creo 2.0 parametric
* Creo Wiring Harness
* Pro-e Wildfire 3.0 & 4.0
* Product Data Management PDM
* Product Lifecycle Management PLM Matrix/ Wind-chill
* Geometrical Dimensions & Tolerance (GD&T)
* Tolerance Stack Up Analysis
* SAP for engineering development

# **Career Highlights**

* Mechanical designer with more than 6 years of experience in providing technical design direction on mechanical products, machine parts and components for global ISO manufacturers.
* Expert in creating Concept design for product orientated task, detailed mechanical drawings for piece parts and assemblies from Pro/E models. Adept in maximizing form, fit and function through meticulous design model evaluation.
* Backed by advanced skills in DFM best practices and ERP systems and database/data-storage programs. Earn consistent recognition as a visionary solutions engineer.
* Experience in Product Design for Automobile parts such as Tensioner & Fuel-Cock
* Having rich experience in electro-mechanical field.
* Experience in Sheet metal, plastic component designs.
* 1.5 years’ of experience in resourcing & supplier development for mould part resourcing project.
* Proven experience in design calculations, Product analysis & product validation.
* Good Functional knowledge of APQP, PPAP,DFMEA, ECO & ECR.
* Application knowledge of GD & T fundamentals, manufacturing process.
* Proven experience in management activities such as Project Planning & Tracking, RCA Analysis, Effort Distribution Time-log Allocation & reviews.
* Having application knowledge of UL 1008, UL 50 , NFPA, IEC standards for designing switches range from 63A to 3000A 3 pole & 4 pole.

# **Professional Work Experience**

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| **KPIT Cummins Info-systems Ltd.** | **Jul’11-Till date** |

Job Designation: Senior Design Engineer

Experience of **33** months as a Senior Design Engineer & **24** month as Design Engineer for Automatic transfer switch design & development.

* Talented and accomplished professional with extensive background in Automatic transfer switch. Worked on Electro-mechanical, sheet metal and plastic components also support for Product Data Management & Product Life cycle Management.
* Working for Cummins Power Generation where my responsibilities involve Concept design and Quality checks of work. Managing multiple projects independently, performing all Project Management activities independently, effective client communication and co-ordination.

**Knowledge of and core responsibilities:**

**Project Description: Design & Development for Automatic Transfer Switch**

* Designing Mechanism, Linkage design & stress calculations to verify design.
* Preparing concepts for switch building to accommodate all parts in proper manner.
* Formulate innovative ideas for switch building to reduce cost of overall switch& its parts, reduce assembly time.
* Designing springs to functionalize mechanism & to achieve requirement.
* 3D modelling for all concepts, parts, assemblies.
* 2D drawings for all parts, assemblies with adhering drafting standards and shared to stakeholders for prototype.
* Design review with engineering team & stakeholders.
* Peer reviewer for some part of project deliveries
* Engineering Documentations & Change Process through ECO’s/ECN’s.
* Promotion of Product and drawing from PDM & PLM
* Reduce down errors in drawings through RCA analysis.
* Reduces project risk through Risk assessment discussion with team.
* Performing management activities as Project planning, defining the scope of work and feasibility study.
* Client communication, Resource allocation and Manpower planning for the project

**Trainings:**

* 7 days GD & T training within organisation
* 2 days Tolerance stack up analysis within organisation
* 1 day training on Expert Excel within organisation
* 1 days training on ‘Fault Tree Analysis’ (Root Cause Analysis) in Cummins
* 2 days training on ‘ Overview of 6 Sigma’ in Cummins

**ADVIK Hi-tech Pvt Ltd. Jan 10 to Jun 11**

Job Designation: Design Engineer

**Knowledge of and core responsibilities:**

* Chain Tensioner & Fuel Cock Product Design & Development.
* Converting customer needs into product specification.
* Part Code & BOM Creation in SAP System
* Generating product concept, development/production drawings using Pro-e & UG Nx 7.5
* Design Calculations, Product analysis & Product validation.
* Preparation of APQP, DFMEA & PPAP documents with team.
* Preliminary Inspection of product/Parts.
* Visiting supplier for proto/Part development.
* Analysis on customer warranty & feedback to customer, appropriate changes in design

Key Assignments Handled

Chain Tensioner

* Successful Development of prototype samples with considering Applicable standards, Design calculation, DFMEA, Drawings, Product validation & proper documentation of Chain Tensioner for Harley-Davidson’s, Ducati, Honda, Suzuki, Yamaha, Bajaj, Piaggio, KTM sport motorcycle.
* Successfully handover Development products for mass production.

Fuel Cock

* Successful Development of tooled-up sample with considering applicable standards, engineering calculation, DFMEA, Drawings, product validation & proper documentation of Fuel Cock for Honda, Yamaha, Suzuki, Bajaj.
* Successfully handover Development products for mass production.

# **Education**

* Pursuing MBA in Operation Management from ICFAI University.
* B.E Mechanical from Shivaji University, Kolhapur with distinction.
* HSC from Kolhapur board with 66%.
* SSC from Kolhapur Board with 75%.

# **Additional certificates & activities**

* Certificate courses in Business Basics from ICFAI University.
* Certification course of Risk Management Planning through E-learning.
* Certified with Technical Leader, within organisation.
* Certified course of Pro-e wildfire 4.0 from CAD-CAM Guru, Pune.
* Active member of Corporate Responsibility (CR) Activities.

# **Personal Details**

Date of Birth : 17/03/1986

Languages : Marathi, English, Hindi.

Marital status : Single.

Interest : Sketching drawings, Playing Cricket

Strengths : Willing to learn new things & good team player

Permanent Address : “Samruddhi” Maitry Park Malakapur, Karad.415110

Current Address : The Pearl, D-602, Balewadi Pune.

Passport Details : L2548173, Valid up to 11/06/2023.

**Prashant Patil**